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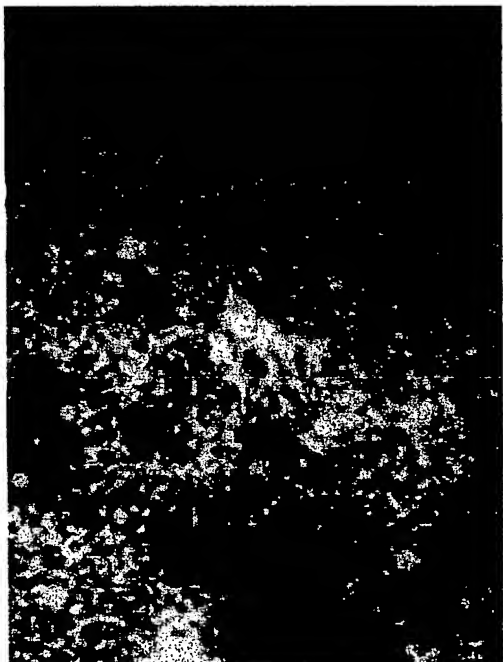
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A



B

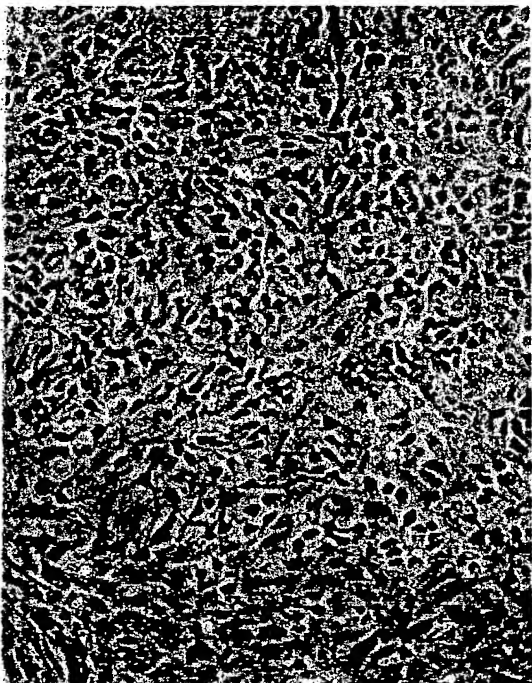
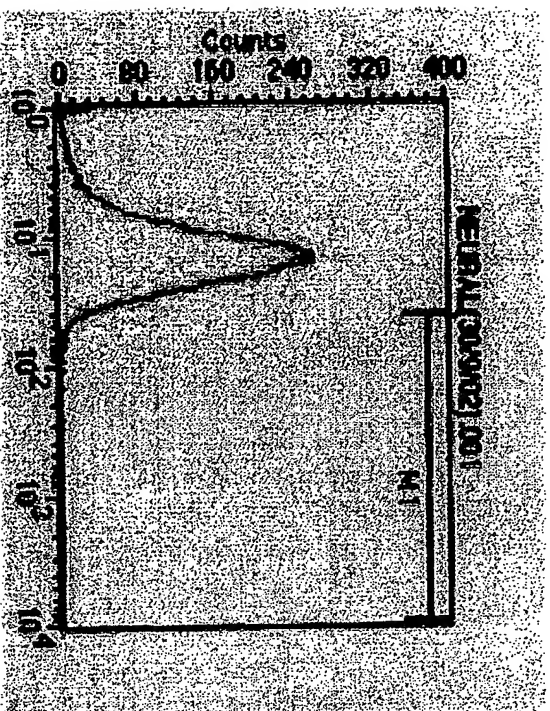


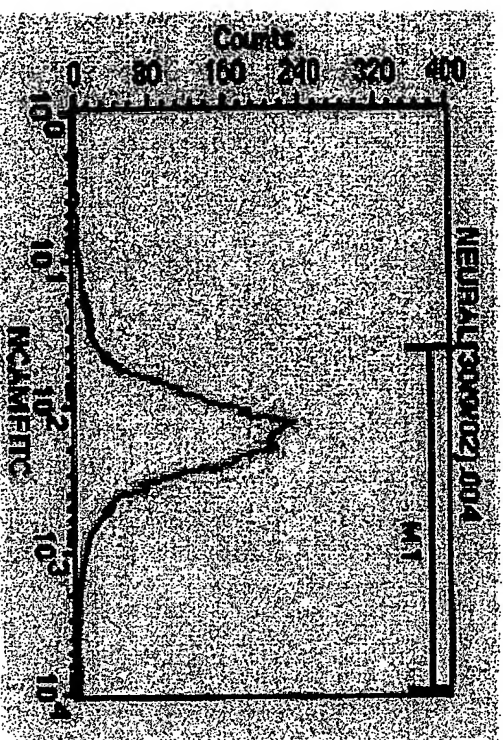
Figure.1:

A- Nestin positive cells;

B- Expansion of Nestin positive cells



Histogram Statistics
 File: NEURAL(30/9/02) 001
 Sample ID: CONTROL/NCAM
 Acquisition Date: 30-Sep-02 Gate: G1
 Gated Events: 30448 Total Events: 50000
 Marker Events % Gated % Total
 All 30448 10000 60.90
 M1 165 054 033



Histogram Statistics
 File: NEURAL(30/9/02) 004
 Sample ID: NCAM(FIXED/PERM)
 Acquisition Date: 30-Sep-02 Gate: G1
 Gated Events: 32566 Total Events: 50000
 Marker Events % Gated % Total
 All 32566 10000 65.13
 M1 31434 9652 62.87

Figure.2: FACS analysis

A-Control (unlabelled cells)

B- NCAM positive cells

A



B

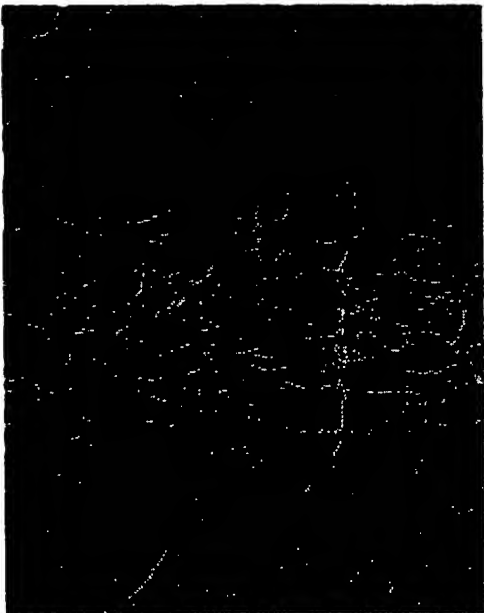


Figure. 3 : Magnetic Sorting of NCAM positive cells
A, B- NCAM positive cells

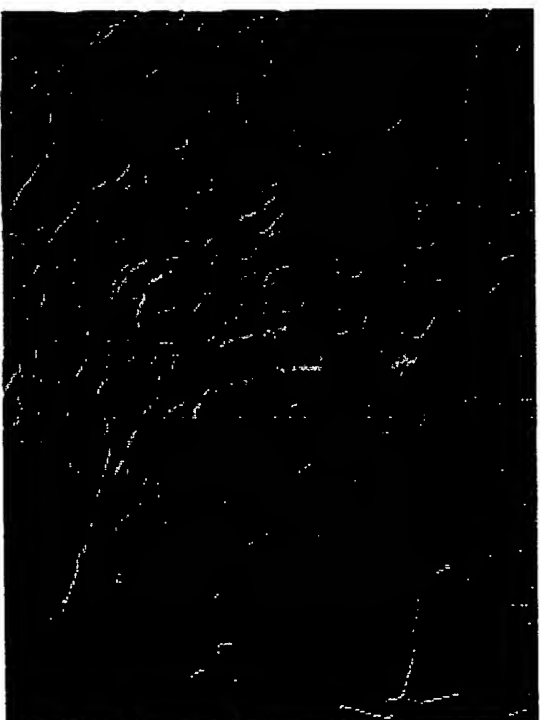


Figure.4A : MAP-2 positive cells

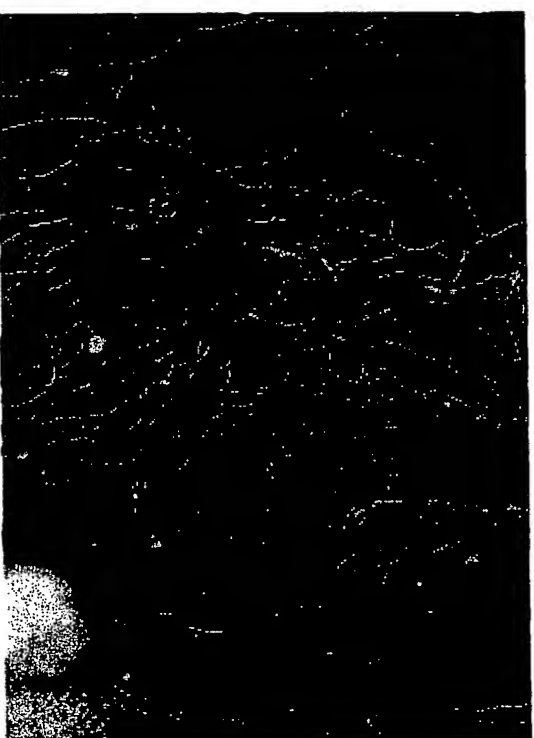
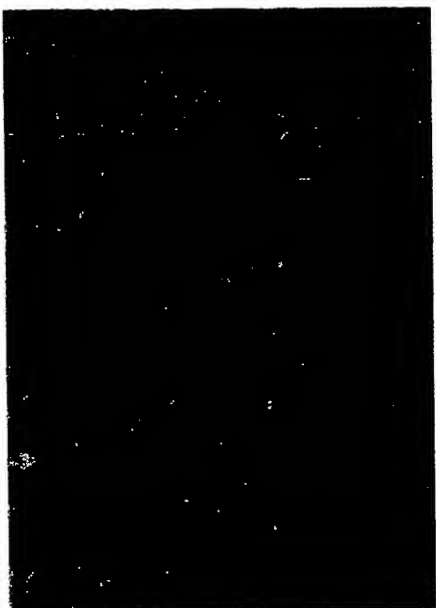


Figure.4B : β Tubulin positive cells

A



B

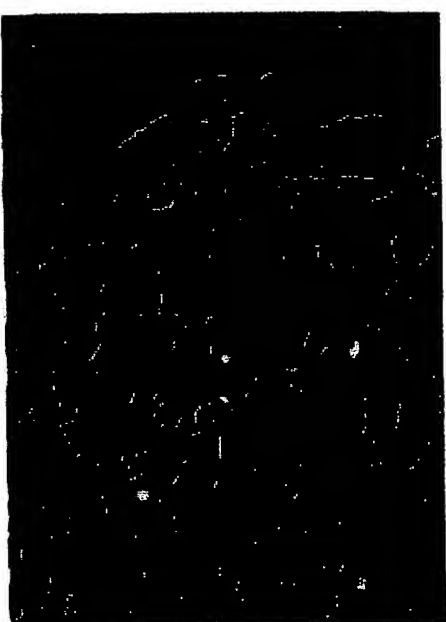


Figure.5 : Cells positive for Tyrosine hydroxylase

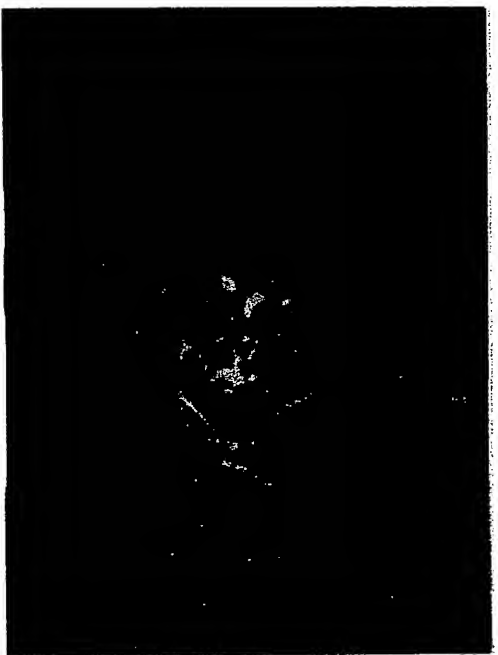


Figure.6 Oligodendrocyte

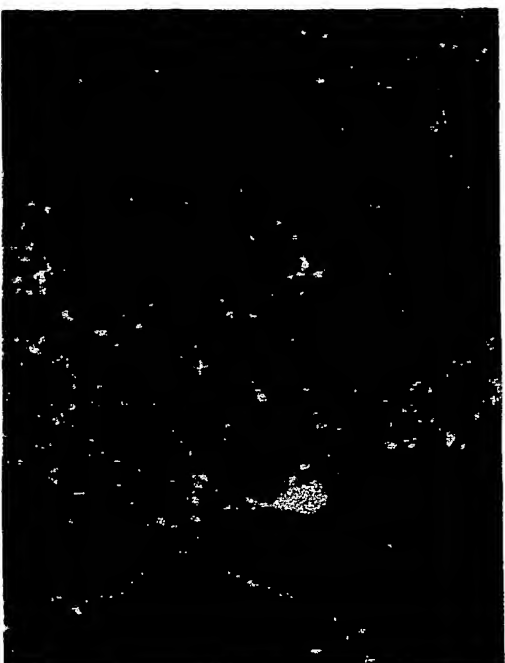
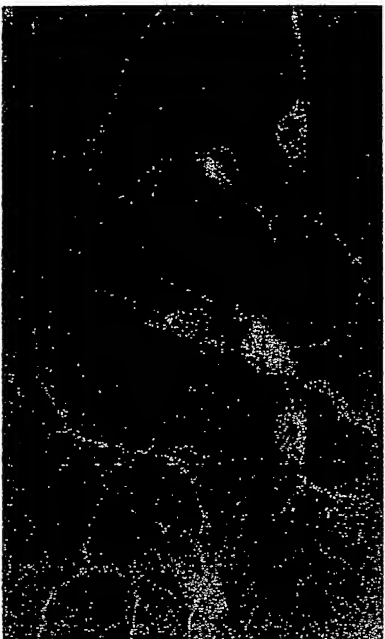


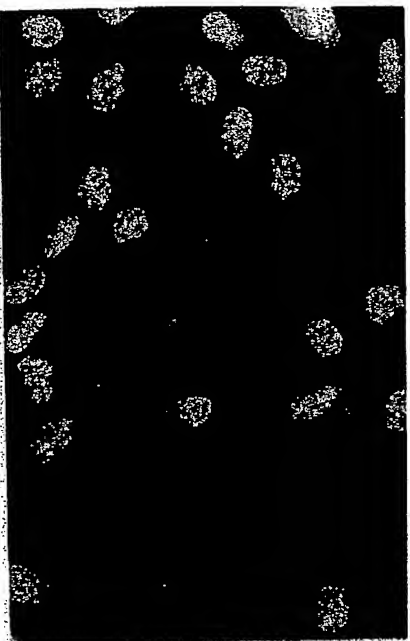
Figure.7 Serotonin



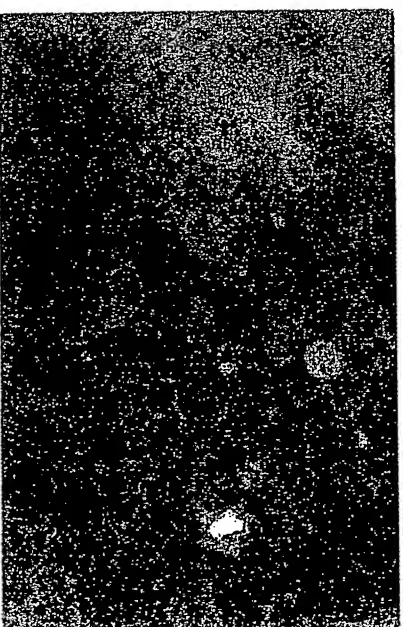
TH / β tubulin



TH/MAP-2



TH/Nurrl



TH /DAT

Figure. 8. Co-localisation of TH with other neuronal antigens

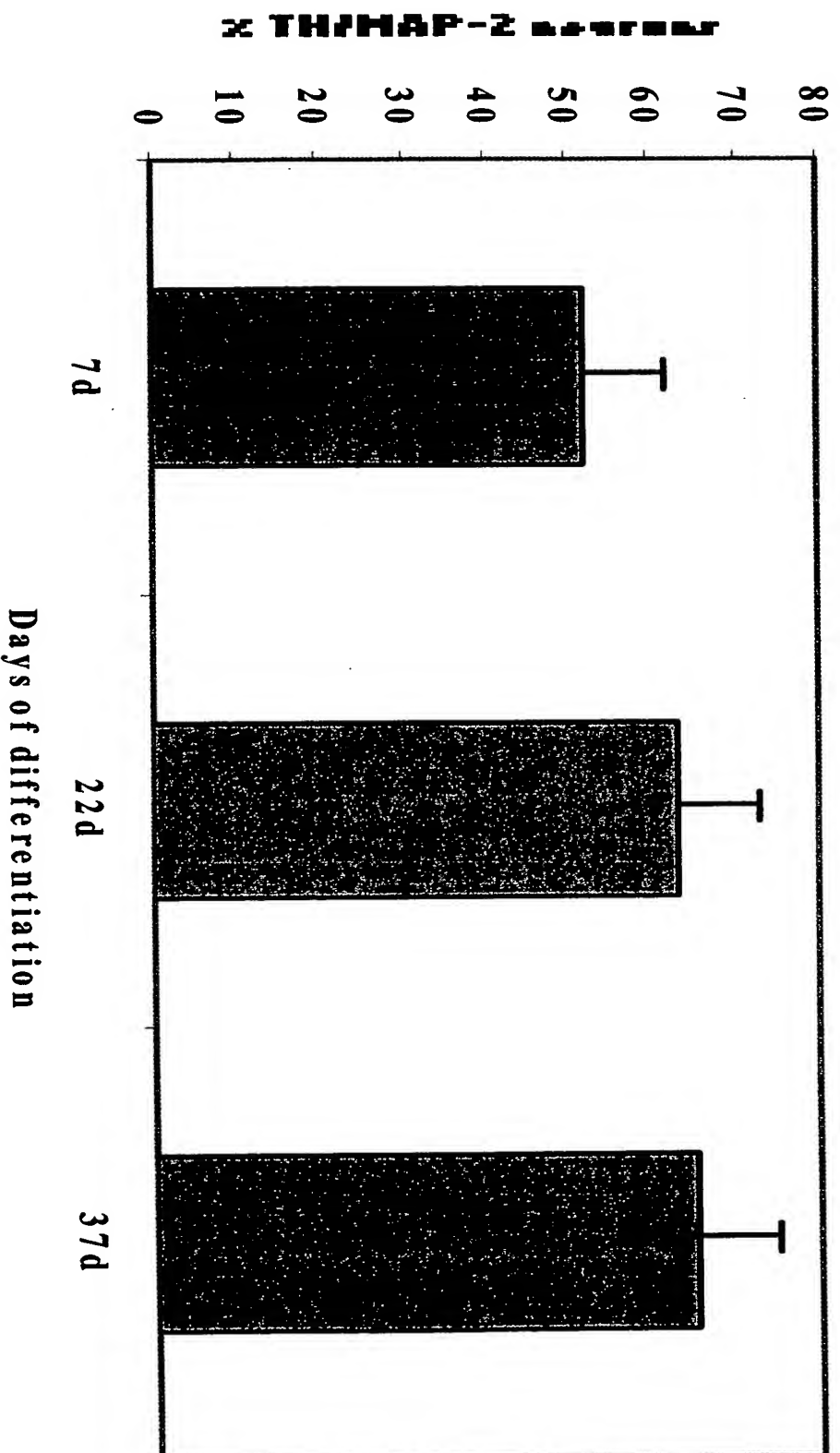


Figure 9: Percent proportion of TH positive neurons

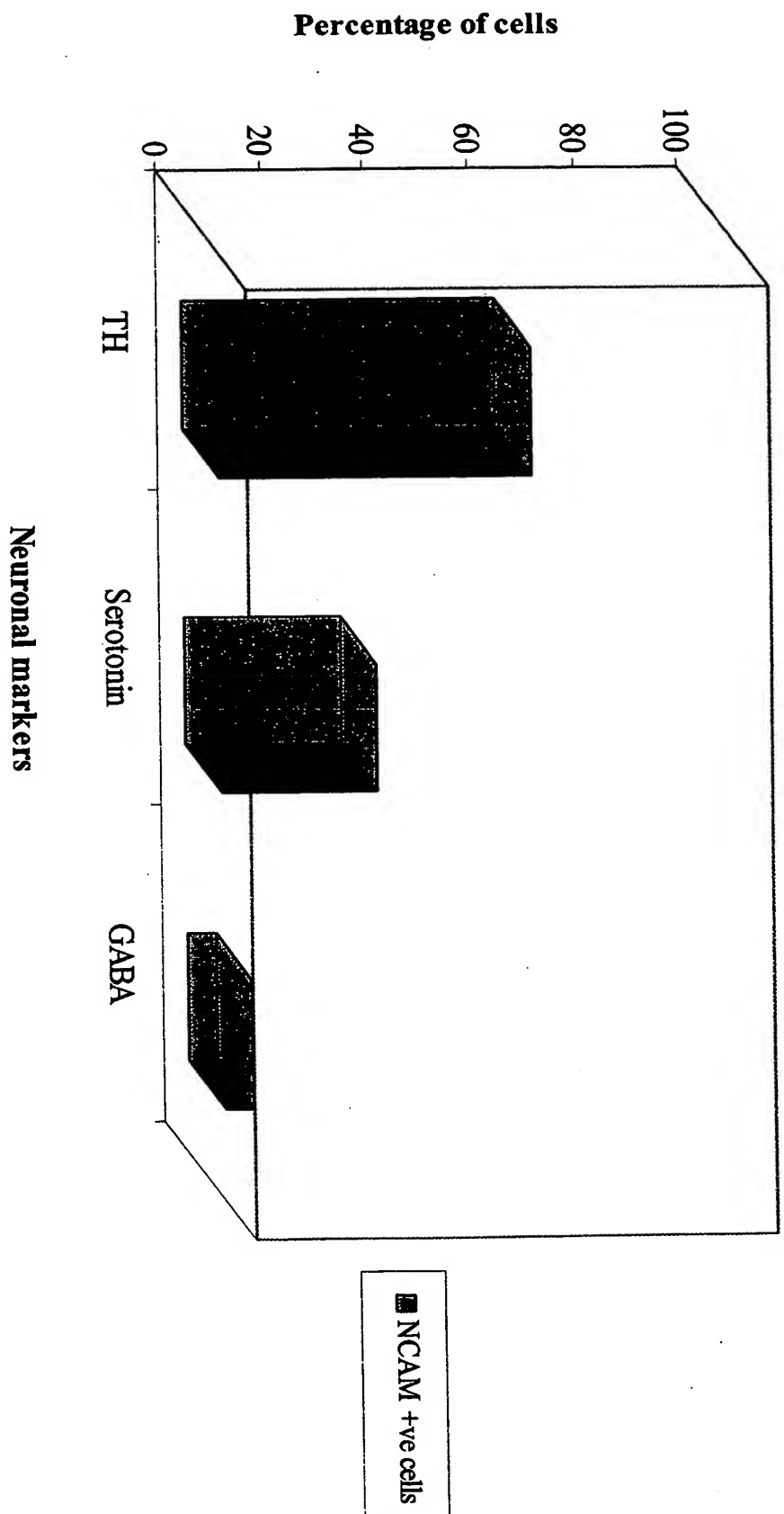
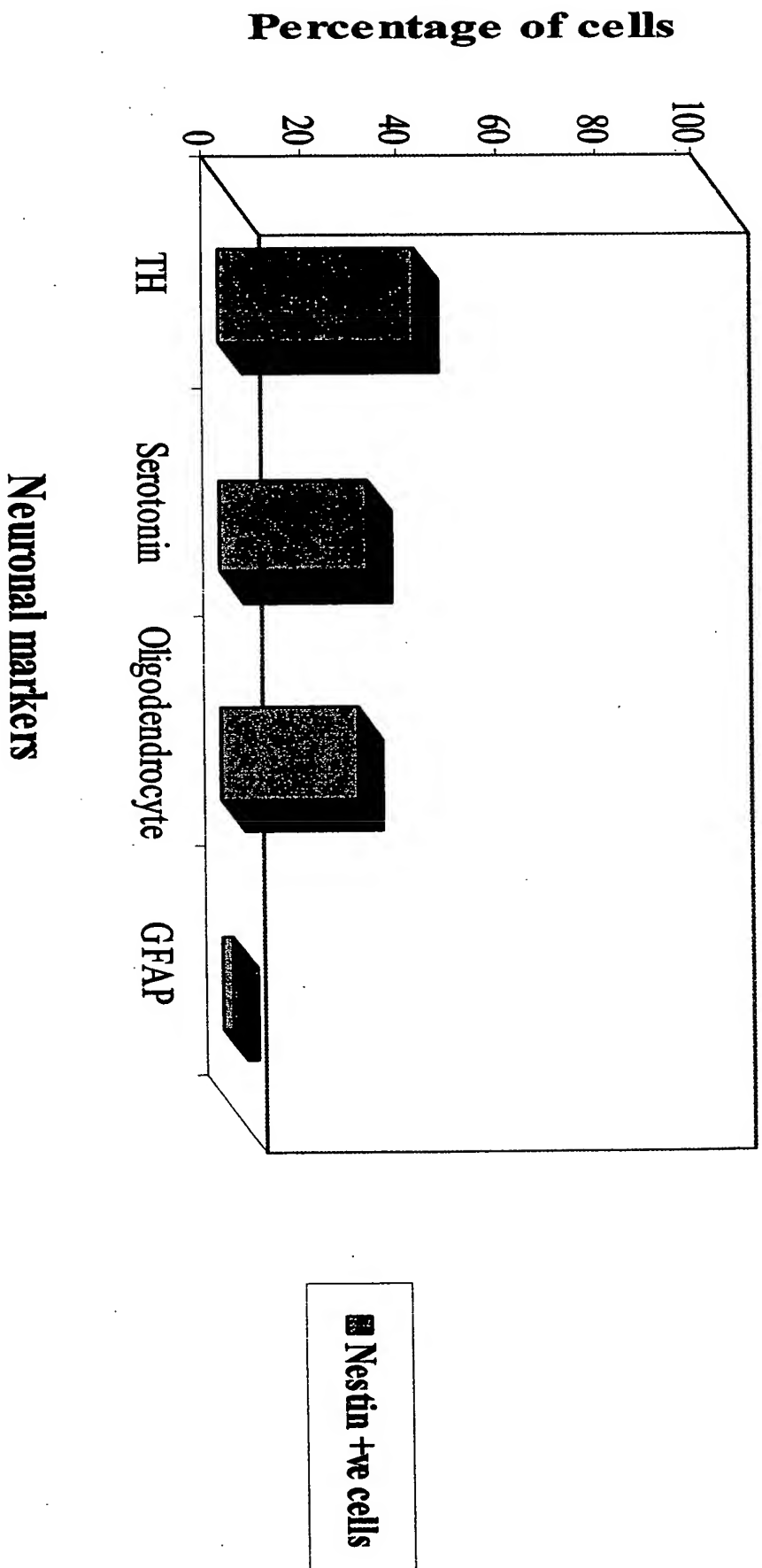


Figure 10 : Quantitative analysis of neuronal populations from NCAM enriched cells.
Tyrosine hydroxylase positive cells found to be 60%



**Figure 11 : Quantitative analysis of neuronal populations from Nestin expansion and differentiation.
Tyrosine hydroxylase positive cells found to be 40%**

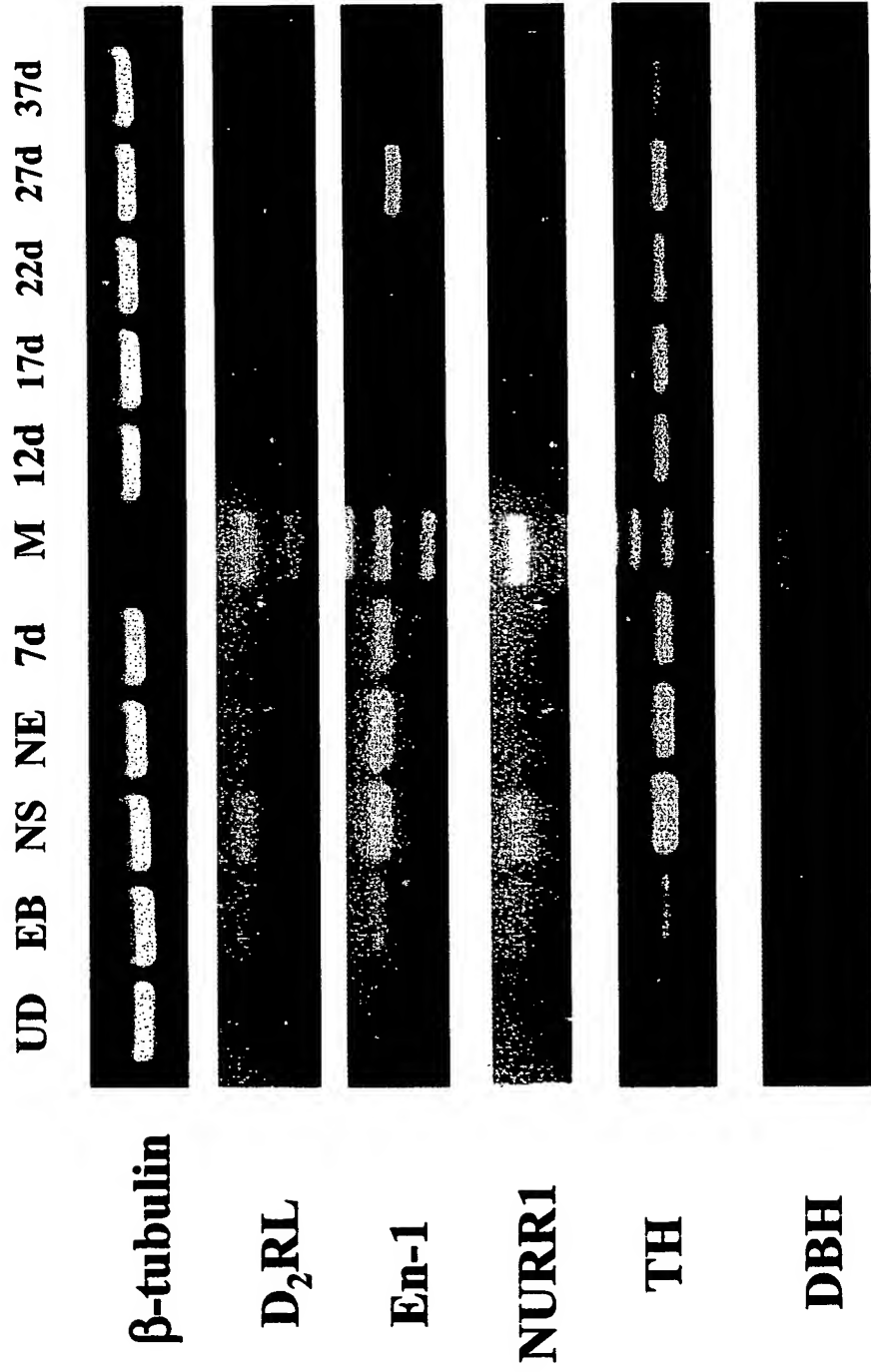


Figure. 12 : Expression of Dopamine specific genes in ES derived neurons

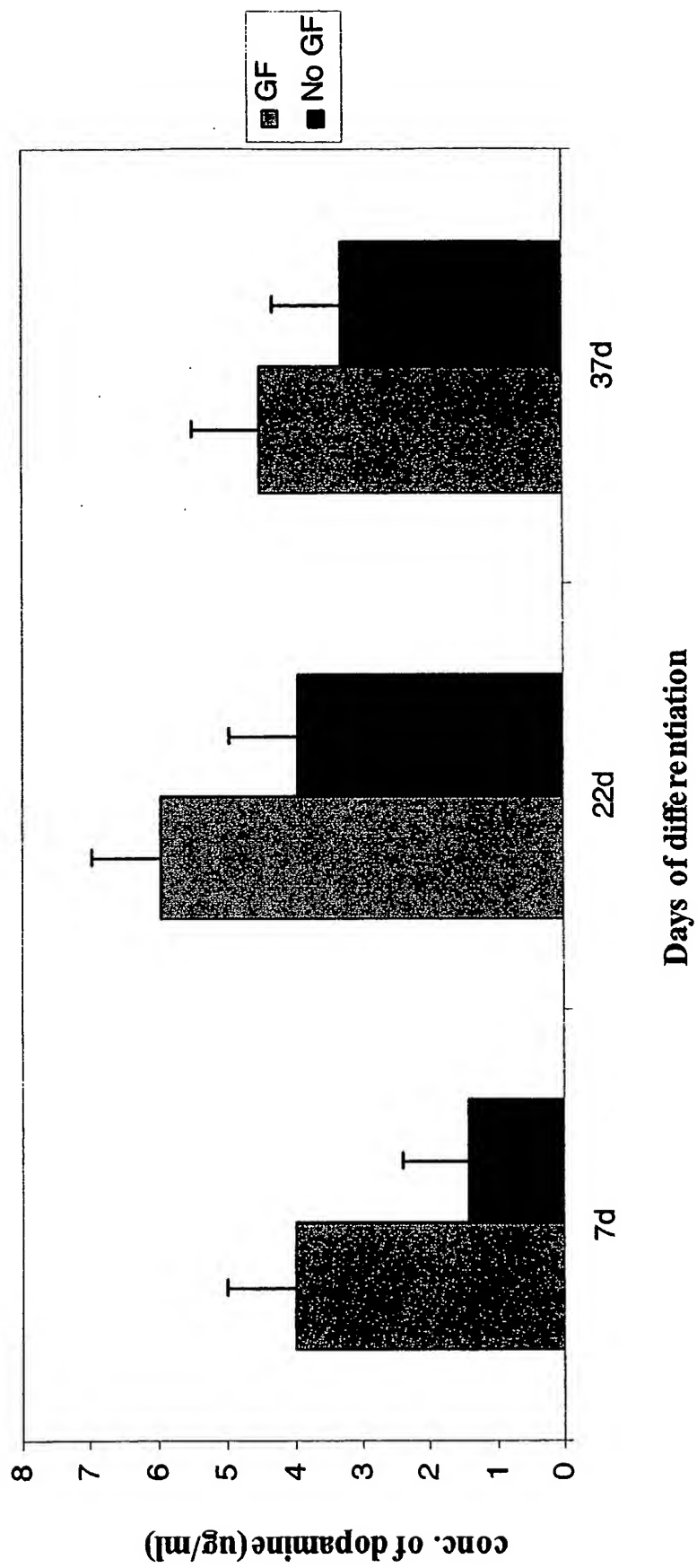


Figure. 13 : Analysis of intracellular dopamine in cell lysates

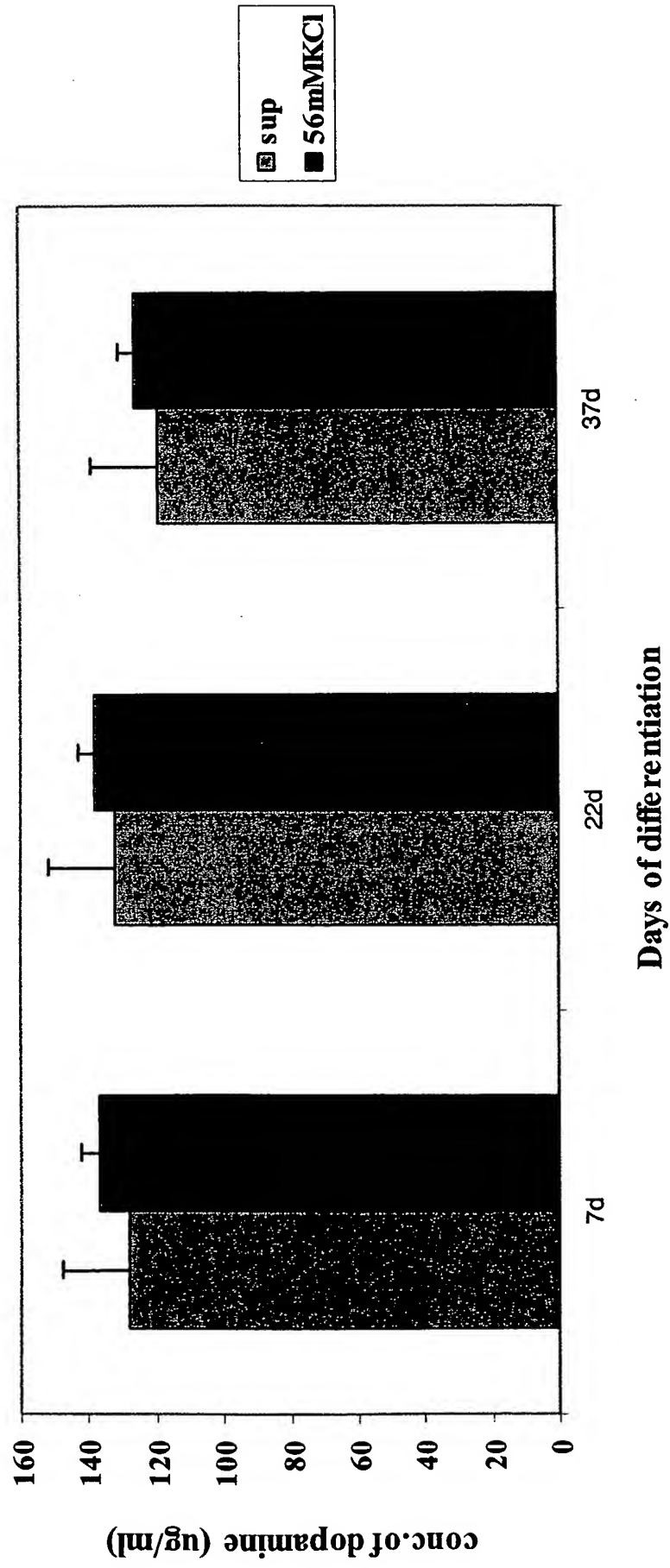


Figure14: KCl evoked release of dopamine in conditioned medium